

CLAIMS:

1. A display device (10; 20; 30; 40; 50; 60; 70) comprising a light guide (2) and a plate (4), which extend essentially parallel in a mutually spaced relationship, said display device further comprising a movable element (3; 23; 33; 43; 53) which is arranged between the light guide and the plate in a spaced relationship to the light guide, selection means (5, 6)
5 to locally bring said movable element into contact with the light guide, and a number of spacing elements (13; 63) arranged on the light guide or the plate for maintaining the space between the movable element and the light guide and the plate, respectively, characterized in that the spacing elements form an integral part of the movable element.
- 10 2. A display device as claimed in claim 1, wherein the movable element is divided into strips (3') and the spacing elements form an integral part of the strips.
3. A display device as claimed in claim 1 or 2, wherein a number of the strips is divided into sub-strips (23; 33; 43; 53).
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4. A display device as claimed in claim 3, wherein a number of the sub-strips comprises a pair of adjacent spacing elements (13) and a part (23; 33; 43; 53) extending in between.
- 20 5. A display device as claimed in claim 3 or 4, wherein a number of the sub-strips (33) comprises one spacing element at one end thereof, the opposite end of the sub-strip being freely movable.
6. A display device as claimed in claim 3, 4 or 5, wherein the sub-strips comprise
25 one or more cut-out parts (24).
7. A display device as claimed in claim 3, 4 or 5, wherein the sub-strips comprise areas having different degrees of flexibility.

8. A display device as claimed in one or more of the preceding claims, wherein the spacing elements extend in a direction which is essentially perpendicular to the longitudinal direction of the strips.

5 9. A display device as claimed in one or more of the preceding claims, wherein the selection means comprise electrodes (46) which are arranged on the movable element (43), said electrodes comprising a reflective material.

10 10. A display device as claimed in one or more of the preceding claims, comprising a number of colour filters (48) which form part of the movable element (43).

15 11. A display device as claimed in one or more of the preceding claims, wherein the spacing elements (63) are arranged at the plate, the display device further comprising a number of supports (58) arranged on the light guide for maintaining the space between the movable element and the light guide.

12. A method of producing a display device according to one or more of the preceding claims, the method comprising the steps of:

- a) arranging a first set of electrodes on a substrate;
- 20 b) covering the electrodes with a layer of insulating material;
- c) arranging a layer of sacrificial material on the insulating layer defining a pattern for the movable element;
- d) arranging a layer of material for the movable element on the insulating layer and the sacrificial layer;
- 25 e) structuring the movable element layer;
- f) arranging a second set of electrodes on the movable element layer; and
- g) removing the sacrificial layer.

30 13. A method as claimed in claim 12, wherein the second set of electrodes and the movable element layer are structured simultaneously in one step.